

**RETROVIRAL GENE THERAPY VECTORS AND THERAPEUTIC
METHODS BASED THEREON**

5

ABSTRACT OF THE DISCLOSURE

Retroviral vectors are disclosed which include an
insertion site for genes of interest and are capable
of expressing high levels of the protein derived from
10 the genes of interest in a wide variety of transfected
cell types. Also disclosed are retroviral vectors
lacking a selectable marker, thus rendering them
suitable for human gene therapy in the treatment of a
variety of disease states without the co-expression of
15 a marker product, such as an antibiotic. These
retroviral vectors are especially suited for use in
certain packaging cell lines.

20

25

30

35